

BRIDGE CONSISTS OF

2 - 62'-0" TYPE III PSC BEAM SPANS	SPECIAL DESIGN
1 - 84'-6" TYPE III PSC BEAM SPAN	SPECIAL DESIGN
2 - STEEL H PILE END BENTS	SPECIAL DESIGN
2 - CONCRETE INTERMEDIATE BENTS	SPECIAL DESIGN
4 - END POST AND GUARDRAIL ATTACHMENT DETAIL	SPECIAL DESIGN
BAR BENDING DETAILS	GA. STD. 3901 (8-69)
CHAIN LINK WIRE FENCE	GA. STD. 9031N (8-13-85)
TYPICAL FILL DETAIL AT END OF BRIDGE	GA. STD. 9037 (10-20-97)

TRAFFIC DATA

TRAFFIC-----	ADT = 38,700 (2006)
	ADT = 62,100 (2026)
% TRUCKS-----	6%
% 24 HR TRUCKS-----	8%
DIRECTIONAL DIST-----	62%/38%
SPEED DESIGN-----	45 MPH

EXISTING UTILITY

GAS MAIN-----	ATLANTA GAS LIGHT COMPANY
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UTILITIES

12" DIAMETER WATER MAIN (STAGE 1)	FAYETTE COUNTY
6 TELEPHONE CONDUITS (STAGE 2)	BELLSOUTH
2" CONDUIT (STAGE 1)	GEORGIA DOT (TRAFFIC SIGNALS)
2" CONDUIT (STAGE 2)	GEORGIA DOT (TRAFFIC SIGNALS)
4" MULTICELL CONDUIT (STAGE 2)	GEORGIA DOT (TRAFFIC SIGNALS)

DESIGN DATA

SPECIFICATIONS -----	AASHTO 1996 AND 1997, 1998 AND 1999 INTERIMS (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)
TYPICAL HS20-44 AND/OR MILITARY LOADING -----	IMPACT ALLOWED
FUTURE PAVING ALLOWANCE -----	30 LBS PER SQ FT
CONCRETE: SUPERSTRUCTURE -----	CLASS AA, f _c = 3,500 PSI
SPANS 1&3: PSC BEAMS -----	CLASS AAA, f _c = 6,000 PSI
PSC BEAM ALLOWABLE TENSION -----	465 PSI
SPAN 2: PSC BEAMS -----	CLASS AAA, f _c = 8,000 PSI
PSC BEAM ALLOWABLE TENSION -----	537 PSI
SUBSTRUCTURE -----	CLASS A, f _c = 3,000 PSI
REINFORCEMENT STEEL: -----	GRADE 60, f _y = 60,000 PSI
PRETENSIONING STRANDS: -----	f _p = 270,000 PSI

GENERAL NOTES

SPECIFICATIONS -	GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.
REINFORCING STEEL -	ALL REINFORCING STEEL SHALL BE PLACED AND TIED IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.
CHAMFER -	ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4 INCH UNLESS OTHERWISE NOTED.
RAILROAD SIDE DITCHES -	PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL CLEAN THE RAILROAD SIDE DITCHES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE. THE CONTRACTOR SHALL MAINTAIN THE RAILROAD SIDE DITCHES FREE OF SILT AND DEBRIS UNTIL FINAL ACCEPTANCE. SEE ROADWAY PLANS FOR EROSION CONTROL AND PAYMENT.
PROTECTIVE PLATFORMS -	PROTECTIVE PLATFORMS WILL BE REQUIRED AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. CONTRACTOR SHALL MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 22'-0" ABOVE TOP OF HIGH RAIL.
TEMPORARY SHORING -	THE COST OF TEMPORARY SHORING AS NECESSARY FOR BRIDGE CONSTRUCTION SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.
TRAFFIC CONTROLS -	SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.
EXISTING BRIDGE PLANS -	PLANS FOR EXISTING BRIDGE MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 656-5401. THE EXISTING BRIDGE WAS BUILT UNDER PROJECT NUMBER FG-340(4).
EPOXY RESIN ADHESIVE -	EPOXY RESIN ADHESIVE TYPE II SHALL BE APPLIED TO ALL HARDENED CONCRETE SURFACES JUST PRIOR TO POURING THE CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OF THE GEORGIA DOT SPECIFICATIONS. COST OF EPOXY ADHESIVE AND ITS APPLICATION SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.
WAITING PERIOD -	NONE REQUIRED
PLAN DRIVING OBJECTIVE -	SEE SUBSTRUCTURE DETAILS.
PILE POINTS -	REINFORCE ALL PILE TIPS WITH PRUYN POINT NO. 75750 OR AN APPROVED EQUAL POINT AT ALL BENTS.
SALVAGE MATERIAL -	NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DEPARTMENT OF TRANSPORTATION.
INCIDENTAL ITEMS -	COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.
WELDING -	ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT CERTIFICATION CARD ISSUED BY THE GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH. ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES SHALL BE USED FOR MANUAL SHIELDED METAL ARC WELDING.
SMOOTH DOWEL BARS -	SMOOTH DOWEL BARS SHALL BE PLACED IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUTED IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.
TELEPHONE CONDUIT UTILITY HANGERS -	INSERTS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. INSERTS SHALL BE GRINNELL FIGURE 282 OR APPROVED EQUAL. COST OF FURNISHING AND INSTALLING INSERTS SHALL BE INCLUDED IN OVERALL BID SUBMITTED. ALL OTHER COMPONENTS OF HANGER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY UTILITY OWNER.
TEMPORARY BARRIERS -	SEE ROADWAY PLANS FOR METHOD AND PAYMENT.
EXISTING BRIDGE SUBSTRUCTURE -	EXISTING BRIDGE SUBSTRUCTURE SHALL BE REMOVED TO 2'-0" MIN. BELOW FINISHED GRADE.
TRAFFIC CONDUIT HANGERS -	CONTRACTOR SHALL FURNISH AND INSTALL ALL HANGER COMPONENTS AND CONDUITS. SEE ROADWAY PLANS FOR PAYMENT FOR CONDUIT. ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING THE HANGERS SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.
STANDARD PLAN MODIFICATION -	THE APPROACH SLAB STANDARD SHALL BE MODIFIED TO INCREASE THE 3/4 INCH EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE OF PAVING REST AND END POST TO 1 INCH AT BENT 4. SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.

PROTECTIVE SURFACE TREATMENT -	PROTECTIVE SURFACE TREATMENT WILL BE REQUIRED AT THIS SITE AS PER SUB-SECTION 500.3.05.AD OF THE GEORGIA DOT SPECIFICATIONS.
GROOVED CONCRETE -	THE ENTIRE LENGTH OF THE BRIDGE, INCLUDING UNDER THE MEDIAN, SHALL BE GROOVED TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.
CHAIN LINK FENCE -	CHAIN LINK FENCE SHALL BE PAID FOR AS "LF CH LK FENCE, PVC, 6 FT, 9 GA".
DRIVING DATA PILES -	ONE DRIVING DATA PILE SHALL BE REQUIRED AT EACH OF BENTS 1 AND 4.
WATER MAIN -	CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING WATER MAIN. SEE ROADWAY PLANS FOR PAYMENT.
WATER MAIN HANGERS -	PIPE ROLL SUPPORT ASSEMBLIES, KEEPER STRAPS AND ALL OTHER COMPONENTS OF HANGER ASSEMBLIES SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR AND THE COST SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.
WATER MAIN CASING -	THE WATER MAIN WITHIN THE LIMITS OF EACH APPROACH SLAB SHALL BE ENCASED IN A CONCRETE PIPE EXTENDING FROM THE BACK FACE OF THE BRIDGE END WALL TO 2 FEET BEYOND THE LIMIT OF THE APPROACH SLAB. THE PIPE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0200	375	CY	BRIDGE EXCAVATION, GRADE SEPARATION
441-0004	1810	SY	CONC SLOPE PAV, 4 IN
500-0100	2178	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 3 (857)
500-2110	402	LF	CONCRETE PARAPET, SPCL DESIGN
500-3101	438	CY	CLASS A CONCRETE
507-9003	2729	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 3
511-1000	68102	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 3 (182357)
520-0573	80	EA	H-PILE POINTS, HP 14 X 73
520-1147	3010	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
540-1101	LUMP		REMOVAL OF EXISTING BR, STA NO - 529+00
643-1452	396	LF	CH LK FENCE, PVC, 6 FT, 9 GA

BRIDGE NO. 3



Heath & Lineback Engineers
INCORPORATED
12 POWDER SPRINGS STREET, SUITE 240
MARIETTA, GEORGIA 30064

GEORGIA

DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN

GENERAL NOTES

S.R. 54 BRIDGE OVER CSX TRANSPORTATION
FAYETTE COUNTY BRF-164-I(32)

NO SCALE

JULY 2003

BRIDGE SHEET
2 OF 25

DESIGNED JWC
DRAWN TBS

CHECKED MS
DESIGN GROUP IAB

REVIEWED JPT/MCD
APPROVED PVL

DATE 2-26-04
BY JWC
REVISIONS
REV. STD. PLAN NOTE

BRIDGE NO. 3